Avian Diseases

Honorary Lifetime Editor

P. P. LEVINE

A. S. ROSENWALD, *Editor*

L. C. GRUMBLES, *Associate Editor*

Editorial Board

H. E. ADLER
B. R. BURMESTER
R. R. CHALQUEST
J. FABRICANT
R. F. GENTRY
R. F. GORDON
W. B. GROSS
L. E. HANSON
W. HENDERSON
S. B. HITCHNER
M. S. HOFSTAD
A. C. JERSTAD
A. L. KLECKNER
L. G. RAGGI
W. M. REID
K. SCHAAF

Business Manager

G. H. SNOEYENBOS

VOL. IX

ITHACA, NEW YORK

1965

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

(Act of October 23, 1962: Section 4369, Title 39, United States Code)

Publisher: File two copies of this form with your postmaster.

1. DATE OF FILING	2. TITLE OF PUBLICATION
October 13, 1965	AVIAN DISEASES

3. FREQUENCY OF ISSUE

4 x Yearly - February, May, August and November

4. LOCATION OF KNOWN OFFICE OF PUBLICATION *(Street, city, county, state, zip code)*

Avian Diseases, University of Massachusetts Amherst, Massachusetts 01003

5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS *(Not printers)*

Same as above

6. NAMES AND ADDRESSES OF PUBLISHER, EDITOR, AND MANAGING EDITOR

PUBLISHER *(Name and address)*

American Association of Avian Pathologists

EDITOR *(Name and address)*

Dr. A. S. Rosenwald, University of California, Davis, California 65616

MANAGING EDITOR *(Name and address)* (Business Manager)

Dr. G. H. Snoeyenbos, University of Massachusetts, Amherst, Massachusetts 01003

7. OWNER *(If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.)*

NAME	ADDRESS
American Association of Avian Pathologists	University of Massachusetts, Amherst, Massachusetts 01003

8. KNOWN BONDHOLDERS, MORTGAGEES, AND OTHER SECURITY HOLDERS OWNING OR HOLDING 1 PERCENT OR MORE OF TOTAL AMOUNT OF BONDS, MORTGAGES OR OTHER SECURITIES *(If there are none, so state)*

NAME	ADDRESS
None	

9. Paragraphs 7 and 8 include, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, also the statements in the two paragraphs show the affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner. Names and addresses of individuals who are stockholders of a corporation which itself is a stockholder or holder of bonds, mortgages or other securities of the publishing corporation have been included in paragraphs 7 and 8 when the interests of such individuals are equivalent to 1 percent or more of the total amount of the stock or securities of the publishing corporation.

10. THIS ITEM MUST BE COMPLETED FOR ALL PUBLICATIONS EXCEPT THOSE WHICH DO NOT CARRY ADVERTISING OTHER THAN THE PUBLISHER'S OWN AND WHICH ARE NAMED IN SECTIONS 132.231, 132.232, AND 132.233, POSTAL MANUAL *(Sections 4355a, 4355b, and 4356 of Title 39, United States Code)*

	AVERAGE NO. COPIES EACH ISSUE DURING PRECEDING 12 MONTHS	SINGLE ISSUE NEAREST TO FILING DATE
A. TOTAL NO. COPIES PRINTED *(Net Press Run)*	1520	1580
B. PAID CIRCULATION 1. SALES THROUGH DEALERS AND CARRIERS, STREET VENDORS AND COUNTER SALES	698	720
2. MAIL SUBSCRIPTIONS	595	639
C. TOTAL PAID CIRCULATION	1293	1359
D. FREE DISTRIBUTION *(including samples)* BY MAIL, CARRIER OR OTHER MEANS	22	22
E. TOTAL DISTRIBUTION *(Sum of C and D)*	1315	1381
F. OFFICE USE, LEFT-OVER, UNACCOUNTED, SPOILED AFTER PRINTING	205	199
G. TOTAL *(Sum of E & F—should equal net press run shown in A)*	1520	1580

I certify that the statements made by me above are correct and complete.

(Signature of editor, publisher, business manager, or owner)

G. H. Snoeyenbos

POD Form 3526 Jan. 1965

AUTHOR INDEX

Ablashi, Dharam V. 407
Adler, H. E. 205, 460, 566
Anderson, D. P. 171

Baharsefat, M. 460, 566
Bankowski, R. A. 157, 359
Barden, Elizabeth S. 57
Bates, Henry A. 24, 220
Belcher, L. V. 504
Berkman, R. N. 348
Bickford, Arthur A. 317, 464
Biely, Jacob 119
Bigland, C. H. 108, 212
Boone, M. A. 227
Braune, M. O. 535
Brion, A. J. 1
Brunetti, Oscar A. 382
Burke, C. N. 31, 104
Burmester, B. R. 82
Byrne, J. L. 302

Cabasso, Victor J. 471
Calnek, B. W. 545
Carlton, W.W. 423
Cassidy, D. R. 78
Chabas, D. 1
Chandiramani, N. K. 67
Chang, Pei W. 407
Chute, H. L. 57
Connell, M. C. 495
Corstvet, R. E. 441
Cundy, K. R. 272
Cunningham, C. H. 182

DaMassa, A. J. 205, 212
Dierks, R. E. 241
Donovan, E. W. 227
Dougherty, E., 3rd 570
DuBose, R. T. 598
Dutta, S. K. 241

Faddoul, George P. 377, 530
Fellows, Gordon W. 377, 530
Ferguson, A. E. 495
Finkner, M. D. 146
Flowers, A. I. 394, 400
Fontaine, M. P. 1
Francis, D. W. 146
Fredrickson, T. N. 82
Fung, J. 302

Gainer, J. H. 8
Gale, C. 348
Card, D. I. 348
Gardiner, J. L. 21
Gelenczei, E. F. 44
Gentry, R. F. 535
Glantz, Paul J. 264
Grumbles, L. C. 394, 400

Hall, C. F. 394, 400
Hanley, J. E. 8
Hanson, L. E. 193
Hanson, R. P. 171
Heddleston, K. L. 367
Helmboldt, C. F. 31
Hitchner, S. B. 237
Hofstad, M. S. 291
Hollander, Susan L. 57
Hunt, R. A. 252
Hunter, Brian F. 382
Hwang, Jen 285, 417

Jay, Alan R. 24

Ketter, W. E. 78
Kenzy, S. G. 520
Kinjo, T. 157, 359
Krauss, H. 104

Lang, G. 495
Larose, R. N. 604
Lee, C. D. 504
Lee, G. G. 559
Luginbuhl, R. E. 31, 104
Lukert, P. D. 308

Magwood, S. E. 302
March, B. E. 119
Marty, E. W. 44
Mathey, W. J. 520
McLoughlin, D. K. 21
Miller, D. L. 504
Moore, R. W. 266

Nelson, S. L. 8

Okazaki, W. 82
Olesiuk, Olga M. 67
Olson, W. A. 232
O'Meara, D. C. 57
Ose, E. E. 348

Pierce, K. R. 266
Pitois, M. 343
Pomeroy, Benjamin S. 24, 220, 241
Purchase, H. Graham 127

Raggi, L. G. 559
Ranck, F. M., Jr. 8
Reid, W. M. 343
Reynolds, Donald P. 220
Rislakki, V. 339
Roberson, R. H. 146
Rosen, Merton N. 382

Sadler, W. W. 441
Sato, S. 591
Saunders, J. Robert 317
Seal, Ulie S. 24
Seibold, H. R. 570
Shifrine, M. 591
Snoeyenbos, G. H. 152, 578
Spring, M. P. 182
Stubbs, E. L. 513

Theodorides, V. J. 232
Trainer, D. O. 252
Tripathy, S. B. 520
Tzianabos, Theodore 152, 578

Van Roekel, H. 67

Wallbank, Alfred M. 513
Watko, L. P. 367
Watrach, A. M. 193
Wight, P. A. L. 327
Wills, C. G. 495
Winterfield, R. W. 237
Woodard, A. E. 212

Yamamoto, R. 108
Yates, Vance J. 407
Yoder, H. W., Jr. 291

SUBJECT INDEX

adenolike virus, latent, from kidney culture 31
airsacculitis from poult inoculation with N-type mycoplasma 108
American Association of Avian Pathologists, 8th Annual Meeting (1965), summary report 624
anesthetizing chickens with diethyl ether 227
Animal Disease Research Workers in the Southern States, 19th Annual Meeting (1965), program 493
avian lymphomatosis, *see* lymphomatosis .....
Avian Pasteurellosis, Workshop Symposium on (1965), program 337
beta-aminopropionitrile toxicity in White Pekin duck 423
book review 202
bronchitis virus, infectious, in cell culture 182
bronchitis virus, infectious, egg and embryo kidney and liver sensitivities to 308
candidiasis of turkeys, aortic changes 520
CELO virus, latent infection in chicken embryo, effect on propagation of Newcastle disease and influenza viruses 407
chlortetracycline in control of *Mycoplasma gallisepticum* in chickens 67
chukar partridges, pen-raised, encephalitis in 8
clostridial infections of growing chickens 317
coccidiosis, influence on feed and water intake 343
Committee on Nomenclature and Reporting of Diseases, Northeastern Conference on Avian Diseases (1965), report 611
1:2-dimethyl-5-nitroimidazole in prevention and treatment of histomoniasis 394
duck, White Pekin, beta-aminopropionitrile toxicity in 423
Eimeria tenella infection, nihydrazone in 21
embryos, individual, periodic harvests from 598
embryos, Newcastle disease-like agent in 1
encephalitis in pen-raised chukar partridges 8
encephalomyelitis virus, multiplication in embryos 104
equine encephalomyelitis, eastern, in pheasants 530
erythroblastosis, virus pH stability 513
erythromycin in control of *Mycoplasma gallisepticum* in chickens 67
Escherichia coli serotype useful for experiments 264
ether, diethyl, in anesthetizing the chicken 227
fluorescent antibody test for respiratory viruses, standardization of 535
folacin deficiency in poults 504
fowl cholera, comparison in chickens and turkeys 367
fowl pox vaccination, effects of 147
fowl pox virus, vaccination with 237
fungi, pathology of mycotoxicosis of in chickens 57
gonadal maldevelopment, neoplastic sequelae of 327
Haemophilus gallinarum, studies of chickens inoculated with 591
Haemophilus gallinarum, susceptibility of Japanese quail 272
hepatitis, infectious, in pheasants 382
histomoniasis, 5-nitro-2-furaldehyde acetylhydrazone in prevention and treatment 400
histomoniasis, 4,7-phenanthroline-5,6 quinone in prevention and treatment 400
histomoniasis, 1:2-dimethyl-5-nitroimidazole in prevention and treatment 394
hemagglutinating virus, unidentified, from turkey 495
hepatitis virus, turkey, observations 578
hepatitis virus, duck, a chicken-embryo-lethal strain 417
hepatitis virus in duck embryo fibroblast cultures 285
hepatitis virus, turkey, properties 152
immunofluorescent studies of ornithosis 24
indirect complement fixation, modification 359
influenza virus propagation, effect of latent CELO infection in embryo 407
inspection, poultry, ante-mortem to supplement post-mortem 441
laryngotracheitis, infectious, in Finland 339
laryngotracheitis, infectious, outbreaks following vaccination 559

laryngotracheitis virus, infectious, modified, characteristics 44
leukosis, mortality from, as affected by nutrition 119
leukosis virus, resistance-inducing-factor test for 545
lymphomatosis, avian, strain development 82
lymphomatosis, avian, virus transmission 82
lymphomatosis, response to graded doses 604
meningoencephalitis in turkeys with ornithosis 266
mite, subcutaneous, incidence in chickens 78
Miyagawanella ornithosis, low-virulent inoculation with 220
mycoplasma antigen, killed, hemagglutination and hemagglutination inhibition with 566
Mycoplasma gallisepticum, control with tylosin and other antibiotics 67
Mycoplasma gallisepticum, morphology and development 241
Mycoplasma gallisepticum, 6 isolates, antigenicity 205
Mycoplasma gallisepticum, titers in chickens and turkeys 460
Mycoplasma gallisepticum, tylosin vs. egg transmission 291
mycoplasma, N-type, inoculation of poults to produce airsacculitis 108
mycotoxicosis in chickens of certain fungi 57
Newcastle disease vaccine, nonavian tissue culture 348
Newcastle disease virus, antigenicity and immunogenicity among strains 157
Newcastle disease virus propagation, effect of latent CELO infection in embryo 407
Newcastle disease-like agent in embryos 1
nihydrazone in *Eimeria tenella* infection 21
5-nitro-2-furaldehyde acetylhydrazone in prevention and treatment of histomoniasis 400
Nomenclature and Reporting of Diseases, Committee on, report to Northeastern Conference on Avian Diseases (1965) 611
North Central States Poultry Disease Conference Area, Principal Diseases Diagnosed in, Summary Report for 1964 619
North Central States Poultry Disease Conference, 16th Annual (1965), program 490
Northeastern Conference on Avian Diseases (1965), Pullorum Disease Testing Results, report 617
Northeastern Conference on Avian Diseases (1965), report of Committee on Nomenclature and Reporting of Diseases 611
Northeastern Conference on Avian Diseases, 37th Annual Meeting (1965), program 491
ornithosis, immunizing turkeys with low-virulent Miyagawanella 220
ornithosis, immunofluorescent studies of 24
ornithosis, modification of indirect complement fixation 359
ornithosis in turkeys with meningoencephalitis 266
oviduct, right, fully formed and functional 464
paratyphoid manifestations in pigeons 377
partridge, chukar, pen-raised, encephalitis in 8
pheasant, eastern equine encephalomyelitis in 530
pheasant, infectious hepatitis in 382
4,7-phenanthroline-5,6 quinone in prevention and treatment of histomoniasis 400
pigeons, paratyphoid manifestations in 377
pigeon pox virus, vaccination with 237
poultry inspection, ante-mortem to supplement post-mortem 441
program, North Central States Poultry Disease Conference, 16th Annual Meeting (1965) 490
program, Northeastern Conference on Avian Diseases, 37th Annual Meeting (1965) 491
program, Southern Conference on Avian Diseases, 19th Annual Meeting (1965) of Animal Disease Research Workers in the Southern States 493
program, Symposium on Avian Salmonellosis (1965) 494
program, Western Poultry Disease Conference, 14th Annual (1965) 336
program, Western Poultry Disease Conference, 15th Annual (1966) 626

program, Workshop Symposium on Avian Pasteurellosis (1965) 337
Pullorum Disease Testing Results, report to Northeastern Conference on Avian Diseases (1965) 617
quail, Japanese, diseases of 212
quail, Japanese, susceptibility to *Haemophilus gallinarum* 272
report, American Association of Avian Pathologists, 8th Annual Meeting (1965) 624
report, Committee on Nomenclature and Reporting of Diseases, Northeastern Conference on Avian Diseases (1965) 611
report, Principal Diseases Diagnosed in 1964 in North Central Poultry Disease Conference Area 619
report, Pullorum Disease Testing Results, Northeastern Conference on Avian Diseases (1965) 617
resistance-inducing-factor test for avian leukosis virus 545
respiratory viruses, standardization of fluorescent antibody test for 535
review article: the emerging classification of animal viruses 471
review article: Rous sarcoma and helper viruses 127
Rous sarcoma and helper viruses, a review 127
salmonellae in rendering plants 302
sarcoma, avian, pH stability of the virus 513
scald-water temperature, effect on skin histology 570
Southern Conference on Avian Diseases, 19th Annual Meeting (1965) of Animal Disease Research Workers in the Southern States, program 493
swan, whistling, lead poisoning of 252
Symposium on Avian Salmonellosis (1965), program 494
Tetratrichomonas gallinarum, size of 232
tylosin against egg transmission of *Mycoplasma gallisepticum* 291
tylosin in control of *Mycoplasma gallisepticum* in chickens 67
virus diseases of poultry, influence of environment 171
viruses, animal, structure of 193
viruses, animal, the emerging classification of—a review 471
Western Poultry Disease Conference, 14th Annual (1965), program 336
Western Poultry Disease Conference, 15th Annual (1966), program 626
Workshop Symposium on Avian Pasteurellosis (1965), program 337